



Notes on west Palaearctic species of the genus *Trigonurus* Mulsant, 1847 (Coleoptera: Staphylinidae: Trigonurinae)

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The subfamily Trigonurinae Reiche, 1866 is a monogeneric subfamily of the large family Staphylinidae with an Holarctic distribution. The genus was the subject of a revision (Blackwelder, 1941). Seven species are known from northern America (Blackwelder, 1941; Herman, 2001), two species from the western Palaearctic and two, recently described species from China (Schülke & Smetana, 2015; Kishimoto, 2000; Schülke, 2006).

There are two species in the western Palaearctic region, *Trigonurus mellyi* Mulsant, 1847 distributed in the western Alps (France, Italy and Switzerland) and *Trigonurus asiaticus* Reiche, 1866 known so far from the relatively vast area of Turkey, Caucasus (southern Russia and Georgia) and Iran.

The subspecies *Trigonurus asiaticus paphlagonicus* Mařan, 1933 was described from two Turkish specimens (Kastamonu, Ilgaz-Dağı Milli Parki) and synonymized by Fagel (1968). This taxonomic act was overlooked or ignored by consequent workers (Korge, 1971; Bordoni, 1976; Petrenko, 1980; Kishimoto, 2000 and Schülke & Smetana, 2015) but accepted by Bordoni, 2010: 38. All characters mentioned in the description of *Trigonurus asiaticus paphlagonicus* given by Mařan (1933) are more a question of intraspecific variability and are certainly not sufficient to support a new taxon.

The aim of this paper is 1) to confirm and to fix the synonymy mentioned above, 2) to designate a lectotype for *Trigonurus asiaticus paphlagonicus* Mařan, 3) to give new records for *Trigonurus asiaticus*, 4) to present illustrations of the aedeagus and sternite VIII of *Trigonurus asiaticus* and *Trigonurus mellyi*, and 5) to provide a key for the separation of the two west Palearctic species.

Trigonurus asiaticus Reiche, 1865

(Figs. 1–3)

Trigonurus asiaticus Reiche, 1865: 642. Type locality: de Batoum [Batumi], Immérétie [Georgia, Ajaria].

Trigonurus asiaticus Reiche: Solsky, 1868: 163; Bernhauer & Schubert, 1910: 5; Mařan, 1933: 119; Blackwelder, 1941: 11; Smetana, 1967: 297; Fagel, 1968: 189; Korge, 1964: 114; Korge, 1971: 5; Bordoni, 1976: 222; Potockaya, 1976: 14; Petrenko, 1980: 81; Herman, 2001: 1804; Bordoni, 2010: 38; Schülke & Smetana, 2015: 730.

Trigonurus asiaticus paphlagonicus Mařan, 1933: 118, synonymy in Fagel, 1968: 189. **synonymy confirmed.**

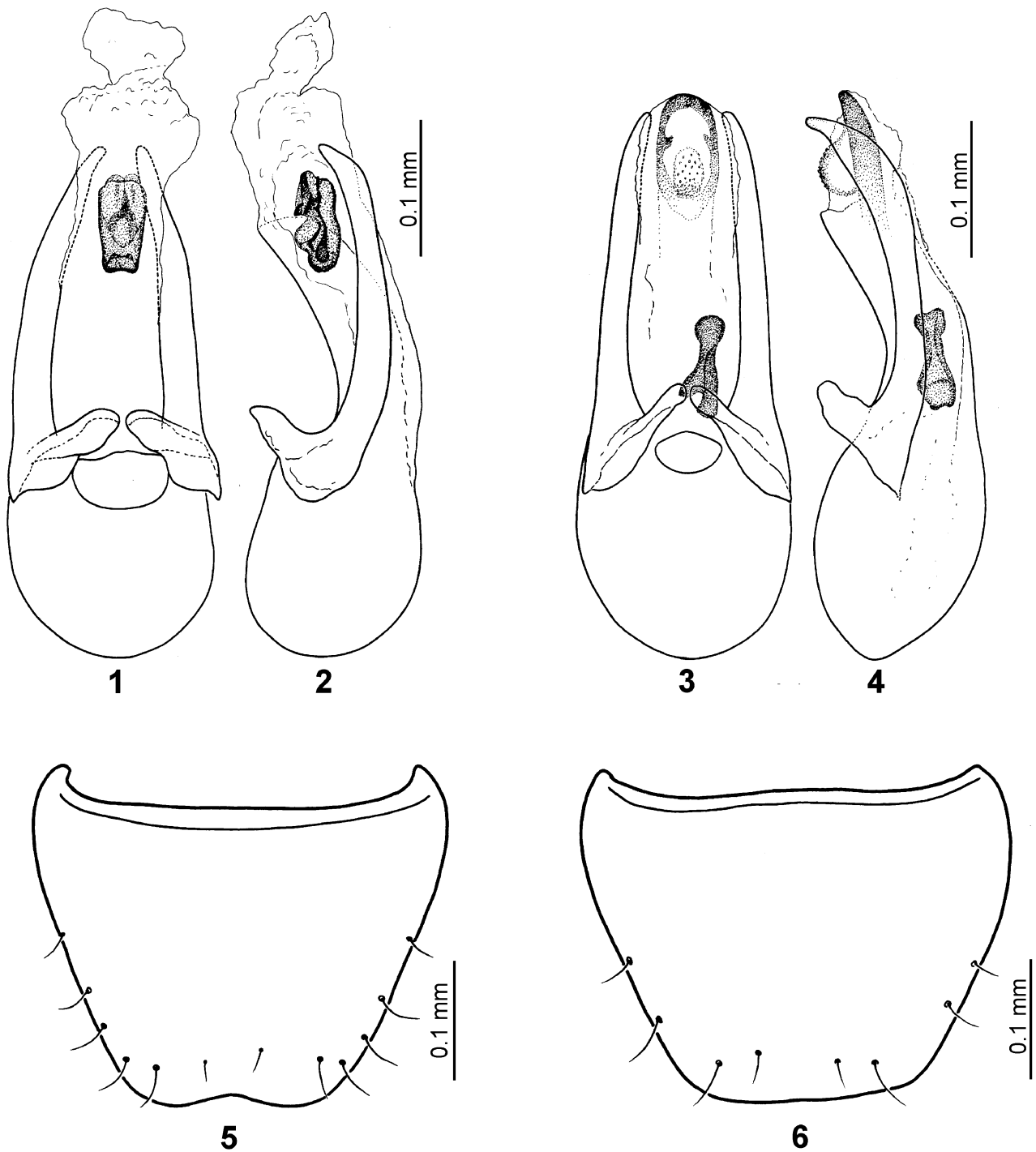
Material studied. *Trigonurus asiaticus paphlagonicus*, LECTOTYPE, 1♀, present designation: (p) Ilgaz Dagħ [Ilgaz Dađlarý], Pephlag Turc., Staněk lgt. / (h) *asiaticus paphlagonicus* m., (p) Dr. Mařan det. / red label (p) TYPUS / (h) *Trigonurus asiaticus* Reiche (p) det. P. Nohel 19 (h)67. / red label (p) LECTOTYPE / (p) *Trigonurus asiaticus paphlagonicus* Mařan = *Trigonurus asiaticus* Reiche, P.Hlaváč & M. Kocian des., 2016. PARALECTOTYPE, 1♀, the same data as lectotype.

New records. 3♂, 1♀: Georgia, Svaneti, 1920m, Mestia env., Ughviri pass, under bark, 43.033273N, N 42.826198E, 5.VII.2015, P. Hlaváč lgt. (MKPC).

Distribution. Georgia (Ajaria, Svaneti), Russia (Caucasus), Turkey (Bolu, Kastamonu, Aydın), Iran

Key to West Palaearctic species of *Trigonurus*

1. Head, pronotum and elytra matte, with stronger mesh-like microsculpture, abdomen with well-defined punctation, Turkey, Caucasus, Iran (Figs. 1–3)..... *T. asiaticus*
- Head, pronotum and elytra glossy, with very fine mesh-like microsculpture, abdomen with fine, sparse punctation, western Alps (Figs. 4–6) *T. mellyi*



FIGURES 1–6. *Trigonurus asiaticus*, male; 1—aedeagus, internal sac partly everted, ventral view; 2—aedeagus, internal sac partly everted, lateral view; 3—sternite VIII, male; *Trigonurus mellyi*, male; 4—aedeagus, ventral view; 5—aedeagus, lateral view; 6—sternite VIII, male. Scales = 0.1 mm.

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